

CAG GTG CAG CTG GTG GAG TCT GGG GGA GGC GTT GTG CAG CCT GGA AGG 48
Gln Val Gln Leu Val 5 Gly Val 10 Gly Pro 15 Arg 15

TCC CTG AGA CTC TCC TGT GCA GCC TCT GGA TTC ACC TTC AGT AGC TAT 96
Ser Leu Arg Leu 20 Ser Cys Ala Ala Ser 25 Phe Thr Phe Ser 30 Tyr 30

GAC ATG TCT TGG GTT CGC CAG GCT CCG GGC AAG GGT CTG GAG TGG GTC 144
Asp Met Ser Trp Val 35 Gln Arg Gln Ala Pro 40 Gly Lys Gly Leu Glu Trp Val 45

GCA AAA GTT AGT AGT GGT GGT GGT AGC ACC TAC Tyr 60 TAT TTA GAC ACT GTG 192
Ala Lys Val Ser Ser Gly 55 Ile Ser Arg GAC AAT AGT AAG AAC ACC CTA TAC 240
Gln Gly Arg Phe Thr 70 ATC TCC AGA GAG Asp Asn Ser 75 Lys Asn Thr Leu Tyr 80

CTG CAA ATG AAC TCT CTG AGA GCC GAG GAC ACA Thr 90 GCC GTG TAT TAC TGT 288
Leu Gln Met Asn Ser 85 Leu Arg Ala Glu Asp 90 Thr Ala Val Tyr 95 Tyr Cys 95

GCA AGA CAT AAC TAC GGC AGT TTT GCT TAC TGG GGC CAA GGG ACT ACA 336
Ala Arg His Asn Tyr 100 Gly Ser Phe 105 Ala Tyr Trp Gly Gln 110 Gly Thr 110

GTG ACT GTT TCT AGT 351
Val Thr Val Ser Ser 115

FIG. 1A

GAG ATT GTG CTA ACT CAG TCT CCA GCC ACC CTG TCT CTC AGC CCA GGA Glu Ile Val Leu Thr ₅ Gln Ser Thr Ala ₁₀ Leu Ser Ser Leu Ser Pro Gly ₁₅	48
GAA AGG GCG ACT CTT TCC TGC CAG GCC AGC CAA AGT ATT AGC AAC CAC Glu Arg Ala Thr ₂₀ Leu Ser Cys Gln Ala Ser ₂₅ Gln Ser Ile Ser Asn His ₃₀	96
CTA CAC TGG TAT CAA CAA AGG CCT GGT CAA GCC CCA AGG CTT CTC ATC Leu His Trp Tyr ₃₅ Gln Gln Arg Pro Gly ₄₀ Gln Ala Pro Arg Leu Ile ₄₅	144
AAG TAT CGT TCC CAG TCC ATC TCT GGG ATC CCC GCC AGG TTC AGT GGC Lys Tyr Arg Ser Gln Ser ₅₅ Ile Ser Gly Ile Pro ₆₀ Ala Arg Phe Ser Gly ₆₅	192
AGT GGA TCA GGG ACA GAT TTC ACC CTC ACT ATC TCC AGT CTG GAG CCT Ser Gly Ser Gly Thr ₇₀ Asp Thr Leu Thr ₇₅ Ile Ser Ser Leu Glu Pro ₈₀	240
GAA GAT TTT GCA GTC TAT TAC TGT CAA CAG AGT GGC AGC TGG CCT CAC Glu Asp Phe Ala Val ₈₅ Tyr Tyr Cys Gln ₉₀ Ser Gly Ser Trp Pro His ₉₅	288
ACG TTC GGA GGG GGG ACC AAG GTG GAA ATT AAG Thr Phe Gly Gly ₁₀₀ Gly Val ₁₀₅ Glu Ile Lys	321

FIG. 1B

GAA GTG CAG CTG GTG GAG TCT GGG GGA GGC TTA GTG AAG CCT GGA AGG Glu Val Gln Leu Val ₅ Glu Val ₁₀ Gly Leu Val ₁₅ Gly Arg	48
TCC CTG AGA CTC TCC TGT GCA GCC TCT GGA TTC GCT TTC AGT AGC TAT Ser Leu Arg ₂₀ Leu Ser Cys Ala Ala ₂₅ Ser Gly Phe Ala Phe ₃₀ Ser Tyr	96
GAC ATG TCT TGG GTT CGC CAG ATT CCG GAG AAG AGG CTG GAG TGG GTC Asp Met Ser ₃₅ Trp Val Arg Gln Ile Pro Glu Lys Arg ₄₅ Leu Glu Trp Val	144
GCA AAA GTT AGT AGT GGT GGT GGT AGC ACC ACC TAT TTA GAC ACT GTG Ala Lys Val Ser Ser Gly ₅₅ Gly Ser Thr Thr Tyr ₆₀ TTA GAC ACT Thr Val	192
CAG GGC CGA TTC ACC ATC TCC AGA GAC AAT GCC AAG AAC ACC CTA TAC Gln Gly Arg Phe Thr ₇₀ Ile Ser Arg Asp Asn Ala ₇₅ Lys Asn Thr Leu Tyr ₈₀	240
CTG CAA ATG AGC AGT CTG AAC TCT GAG GAC ACA GGC ATG TAT TAC TGT Leu Gln Met Ser ₈₅ Leu Asn Ser Glu Asp ₉₀ Thr Ala Met Tyr ₉₅ Tyr Cys	288
GCA AGA CAT AAC TAC GGC AGT TTT GCT TAC TGG GGC CAA GGG ACT CTG Ala Arg His ₁₀₀ Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln ₁₁₀ Thr Leu	336
GTC ACT GTC TCT GCA Val Thr ₁₁₅ Val Ser Ala	351

FIG. 2A

GAT ATT GTG CTA ACT CAG TCT CCA GCC ACC CTG TCT GTG ACA CCA GGA Asp Ile Val Leu Thr ⁵ Gln Ser Pro Ala ¹⁰ Thr Ser Val Thr ¹⁵ Pro Gly	48
GAT AGC GTC AGT CTT TCC TGC CAG GCC AGC CAA AGT ATT AGC AAC CAC Asp Ser Val Ser ²⁰ Leu Ser Cys Gln Ala ²⁵ Ser Gln Ser Ile Ser ³⁰ Asn His	96
CTA CAC TGG TAT CAA CAA AAA TCA CAT GAG TCT CCA AGG CTT CTC ATC Leu His Trp Tyr Gln Gln Lys Ser ⁴⁰ His Glu Ser Pro Arg ⁴⁵ Leu Ile	144
AAG TAT CGT TCC CAG TCC ATC TCT GGG ATC CCC TCC AGG TTC AGT GGC Lys Tyr Arg Ser ⁵⁰ Gln Ser Ile Ser ⁵⁵ Gly Ile Pro Ser ⁶⁰ Arg Phe Ser Gly	192
AGT GGA TCA GGG ACA GAT TTC GCT CTC AGT ATC AAC AGT GTG GAG ACT Ser Gly Ser Gly Thr ⁶⁵ Asp Phe Ala Leu Ser ⁷⁰ Ile Asn Ser Val Glu ⁸⁰ Thr	240
GAA GAT TTT GGA ATG ATG TAT TTC Phe Cys Gln Gln ⁹⁰ Ser Gln Ser Trp ⁹⁵ Pro His	288
ACG TTC GGA GGG ACC AAG CTG GAA ATT AAG Thr Phe Gly Gly ¹⁰⁰ Gly Thr Lys Leu Glu ¹⁰⁵ Ile Lys	321

FIG. 2B

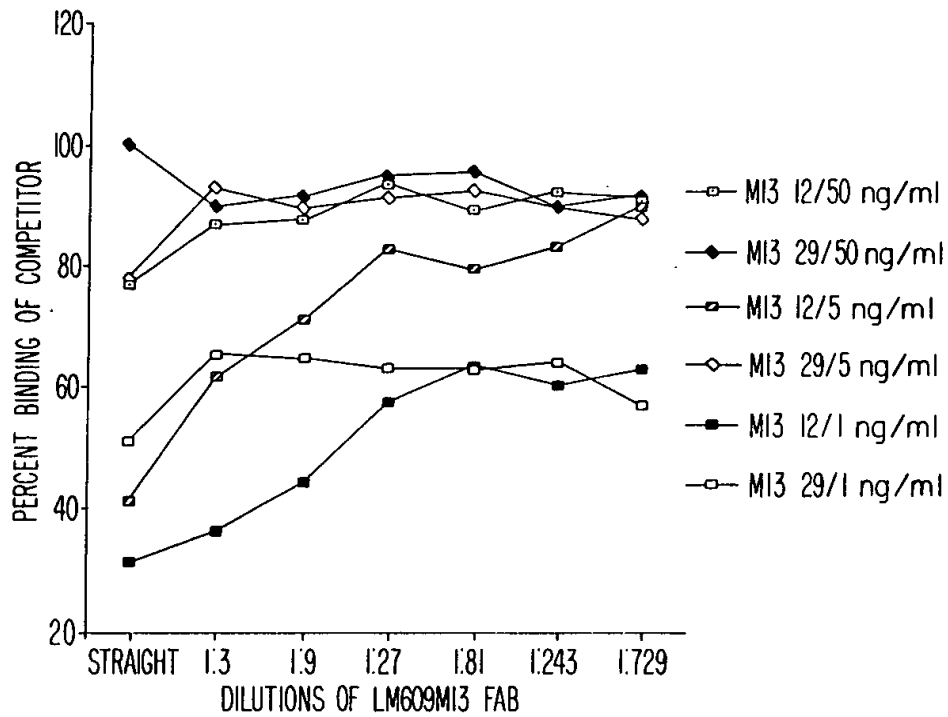


FIG. 3

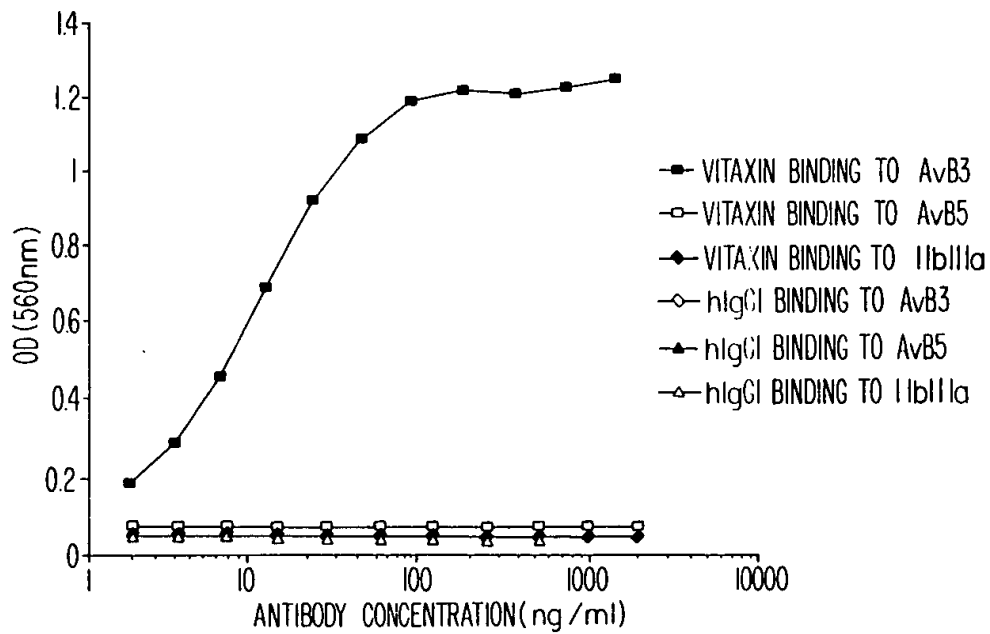


FIG. 4A

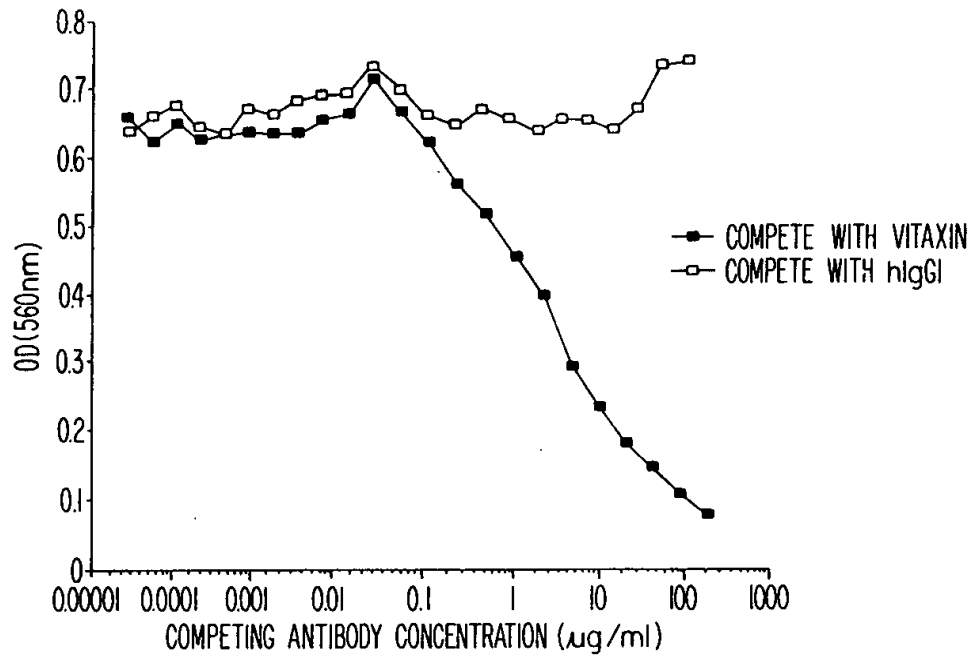


FIG. 4B

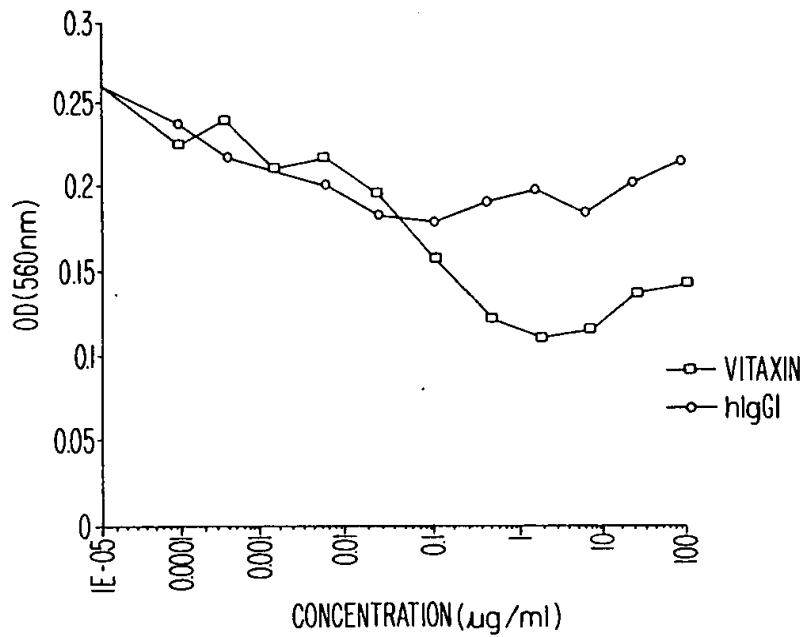


FIG. 4C

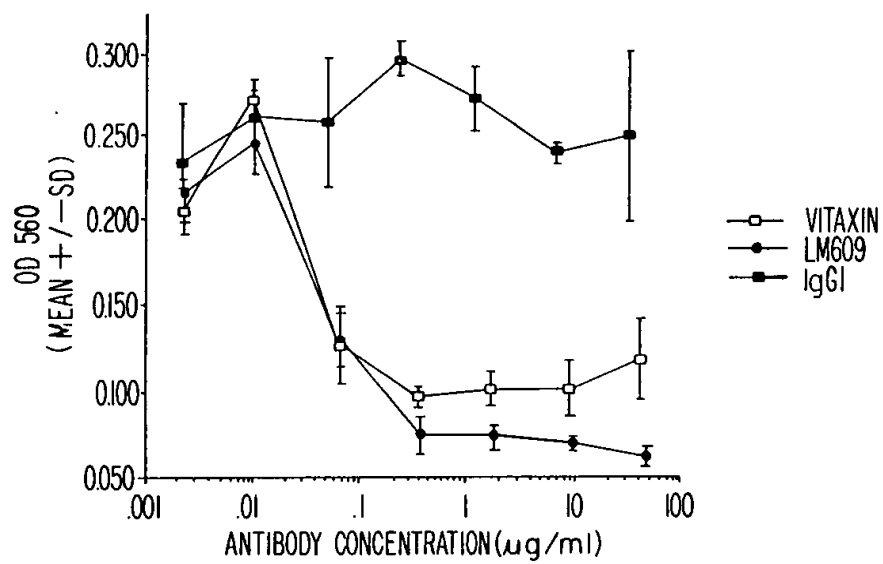


FIG. 5A

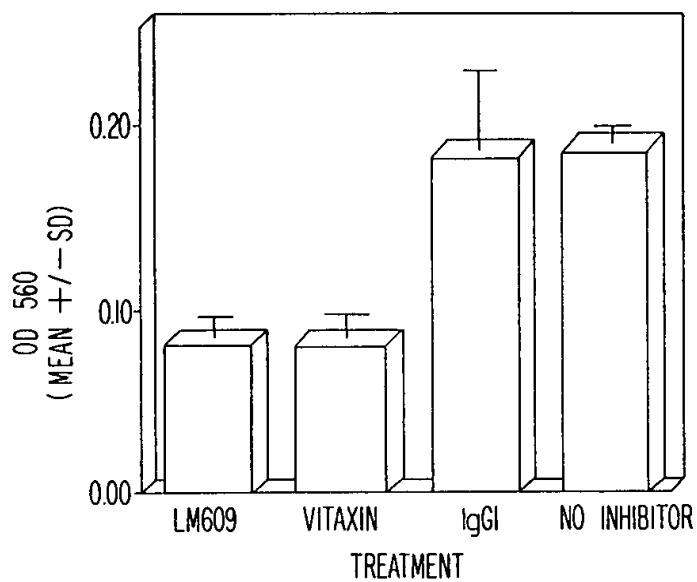


FIG. 5B

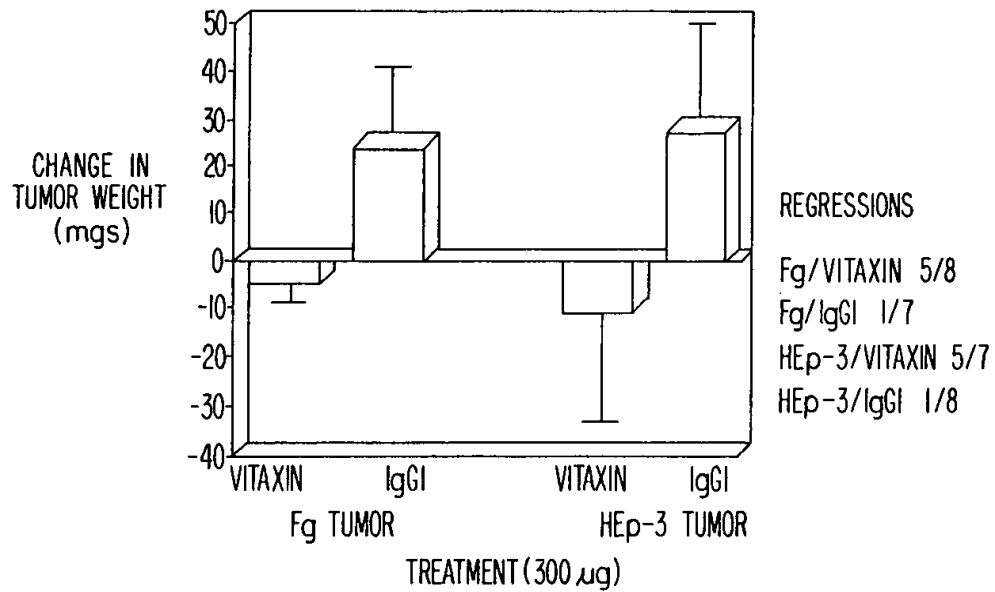


FIG. 6A

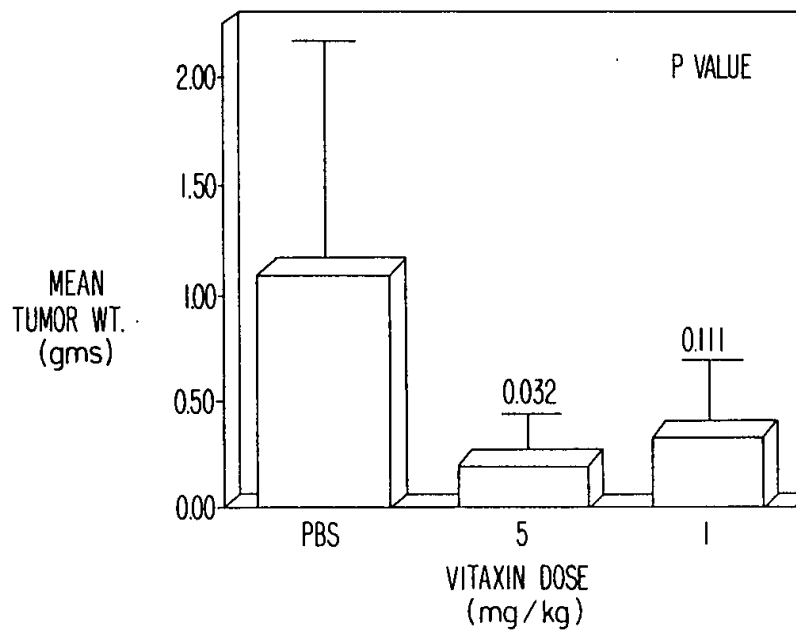


FIG. 6B

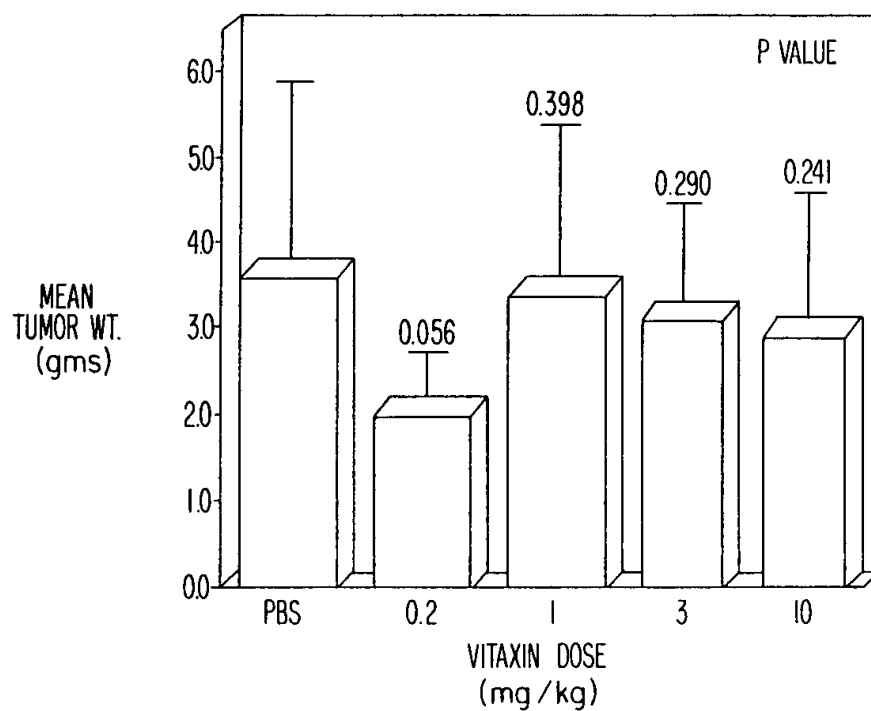


FIG. 6C

GAG ATT GTG CTA ACT CAG TCT CCA GCC ACC CTG TCT CTC AGC CCA GGA Glu Ile Val Leu Thr 5 1	48
GAA AGG GCG ACT CTT TCC TGC CAG GCC AGC CAA AGT ATT AGC AAC CAC Glu Arg Ala Thr Leu Ser Cys Gln Ala Ser Gln Ser Ile Ser Asn His 20 25 30	96
CTA CAC TGG TAT CAA CAA AGG CCT GGT CAA GCC CCA AGG CTT CTC ATC Leu His Trp Tyr Arg Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu Ile 35 40 45	144
CGT/ATG TAT CGT TCC CAG TCC TCC CAG TCC TCT GGG ATC CCC GCC AGG TTC AGT GGC Arg/Met Tyr Arg Ser Gln Ser Ile Ser 55 50	192
AGT GGA TCA GGG ACA GAT TTC ACC CTC ACT ATC TCC AGT CTG GAG CCT Ser Gly Ser Gly Thr Asp 70 65	240
GAA GAT TTT GCA GTC TAT TAC TGT CAA CAG AGT GGC AGC TGG CCT CAC Glu Asp Phe Ala Val 85 90	288
ACG TTC GGA GGG GGG ACC AAG GTG GAA ATT AAG Thr Phe Gly Gly Val 100 105	321

FIG. 7

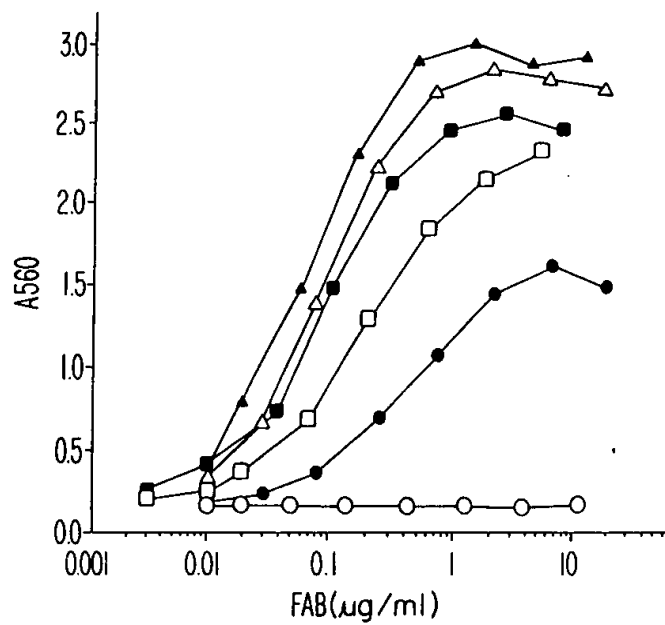


FIG. 8

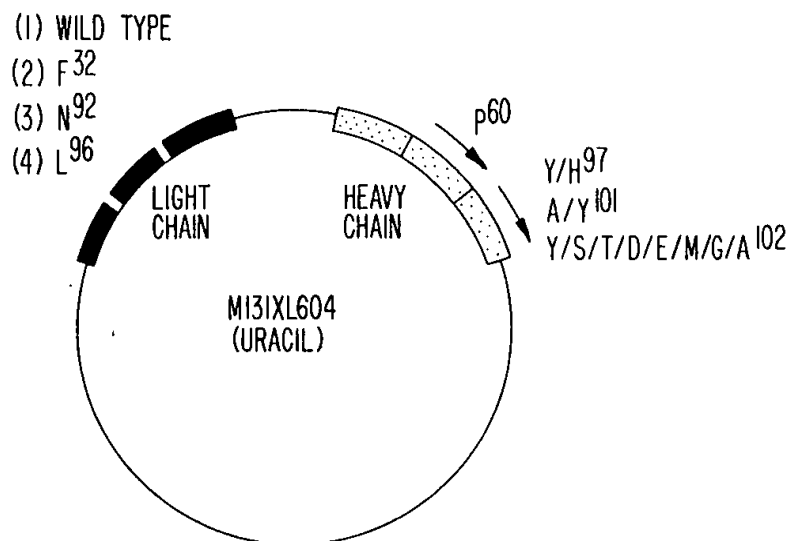


FIG. 9

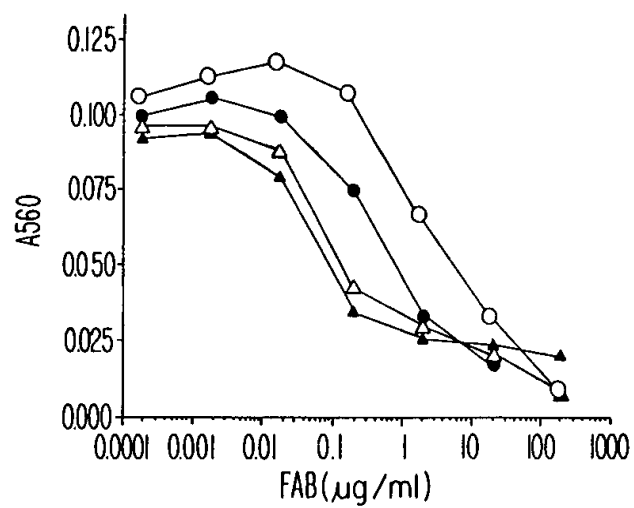


FIG. IOA

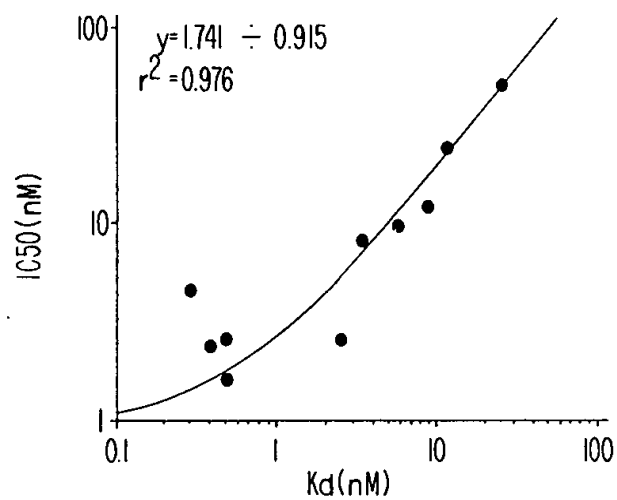


FIG. IOB

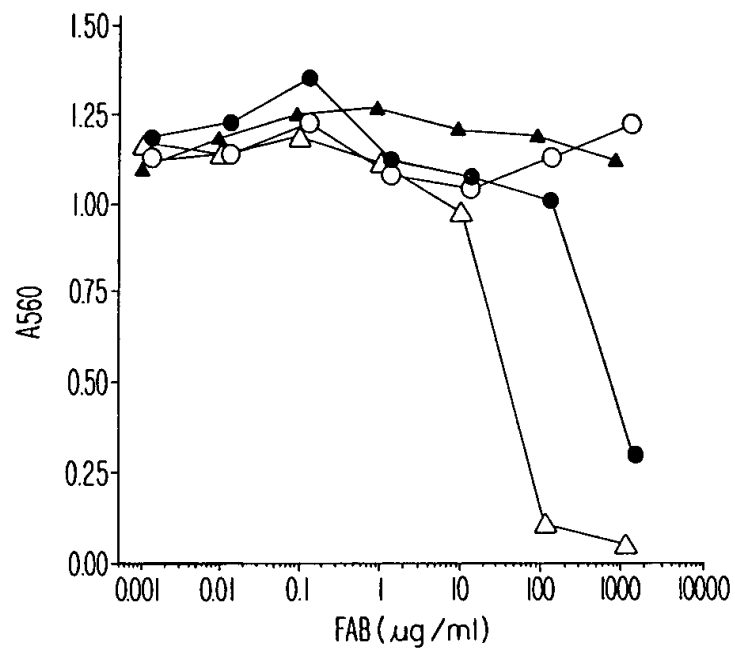


FIG. 11